Joint Hurricane Testbed

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Analysis and forecast advances, developed by the research community were tested and evaluated at the National Hurricane Center (NHC) facilitated by the Joint Hurricane Testbed (JHT). Eight 8th round projects (FY15-17) were tested and evaluated during the 2017 hurricane season, following any necessary technique modifications or other enhancements. These projects include improvements of observational datasets, intensity and structure statistical forecast methods, probabilistic genesis prediction schemes, quantitative estimates for intensity undersampling by aircraft reconnaissance, tools for anticipating eyewall replacement cycles, and tests of an alternative ensemble storm surge system. Testing of these projects will continue during the 2018 hurricane season, as all but one have requested a no-cost-extension. Six new JHT projects have just begun and these will be described as well.